PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: THE BOC GEOVALETIC CLUAI Property Attn. Booth, Andrew Stryen Chertsey Road HECEIVED Windlesham, Surrey GU20 6HJ UNITED KINGDOM	INVITATION TO PAY ADDITIONAL FEES (PCT Article 17(3)(a) and Rule 40.1)
For	
	Date of mailing (day/month/year)
Applicant's or agent's file reference	11/05/2005
M04B107PCT/ASB	PAYMENT DUE within ONE MONTH from the above date of mailing
International application No.	International filing date
PCT/GB2005/000354	(day/month/year) 02/02/2005
Applicant	
THE BOC GROUP PLC	
(i) considers that there are	umber of) Inventions claimed in the international application covered of comply with the requirements of unity of invention with the requirements of unity of invention (2007) and the extra sheet:
(ii) X has carried out a partial International search (see A on those parts of the international application which relate see annex (iii) will establish the International search report on the other to which, additional fees are part	o to the invention first mentioned in claims Nos.; parts of the international application only it, and to the extent
The applicant is hereby Invited, within the time limit indicates	f above, to pay the amount indicated below:
	= EUR 1.550,00
Fee per additional invention number of additional i	nventions: total amount of additional fees
Or,x The applicant is informed that, according to Rule 40.2(c). the plant is a reasoned statement to the effect that the international approximation or that the amount of the required additional fee is excessive.	payment of any additional fee may be made under protest
Claim(s) Nos. Article 17(2)(b) because of defects under Article 17(2)(a)	have been found to be unsearchable under and therefore have not been included with any invention.
Name and malling address of the International Searching Authority	Authorized officer-
European Patent Office, P.B. 5818 Patentlaan:2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040; Tx: 31-651.epo-nl, Fax: (+31-70) 340-3016	Ulrike Zänglein

Form PCT/ISA/206 (July 1992)

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-17,19-31

A vibration damper for inhibiting transfer of vibrations to an apparatus during the evacuation thereof by a pump, the damper comprising a bellows arrangement, wherein the damper is axially pre-compressed.

2.. claim: 18

A vibration damper for inhibiting transfer of vibrations to an apparatus during the evacuation thereof by a pump, the damper comprising a bellows arrangement, wherein the damper comprises resistive means arranged about an axis and under tension in such a way that when damper is subjected to an external axial force tending to compress the bellows arrangement, the resistive means is subjected to a tensile force.

This Authority considers that there are 2 inventions covered by the claims indicated as follows:

 \dot{I} : Claims 1-17, 19-31 directed to a pre-compressed damper and to a pump comprising such a damper;

II. Claim 18 directed to a damper comprising resistive means subjected to a tensile force.

The reasons for which the inventions are not so linked as to form a single general inventive concept, as required by Rule 13.1 PCT, are as follows:

The prior art has been identified as document WO 01/51817 Al and discloses (see fig. 1):

a vibration damper for inhibiting transfer of vibrations to an apparatus during the evacuation thereof by a pump 1, the damper comprising a bellows arrangement 8 for isolating from the ambient atmosphere, fluid drawn from the apparatus by the pump 1, and means 9 for limiting axial compression of the bellows arrangement 8 during use of the damper. It follows that the following technical feature of claim 1 makes a contribution over the prior art and can be considered as a special technical feature within the meaning of Rule 13.2 PCT: a pre-compression of the damper.

The problem solved by this special technical feature can therefore be construed as:

how to improve vibration transmission properties of the damper. On the other hand, a special technical feature of claim 18 is: resistive means arranged about an axis and under tension in such a way that when damper is subjected to an external axial force tending to compress the bellows arrangement, the resistive means is subjected to a tensile force, the resistance to extension of the resistive means opposing axial compression of the bellows arrangement.

The problem solved by this special technical feature can therefore be construed as:

INVITATION TO PAY ADDITIONAL FEES

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to provide alternative solution for means for limiting axial compression of the bellows arrangement

of the bellows arrangement.

Neither the special technical feature of the claim 1 nor any other corresponding feature is present in the claim 18. Also, examining the possible correspondence by technical effect, one finds that the technical effect of the first invention is a higher stiffness characteristic at lower displacement and that the technical effect of the second invention is avoiding of a buckling failure mode.

This appears to show lack of corresponding technical effect as well. Consequently, neither the objective problem underlying the subjects of the claimed inventions, nor their solutions defined by the special technical features allow for a relationship to be established between the said inventions, which involves a single general inventive concept. In conclusion, the groups of claims are not linked by common or corresponding special technical features and define 2 different inventions not linked by a single general inventive concept. The application, hence does not meet the requirements of unity of invention as defined in Rules 13.1 and 13.2 PCT.

Annex to Form PCT/ISA/206 COMMUNICATION RELATING TO THE RESULTS OF THE PARTIAL INTERNATIONAL SEARCH

International Application No. PCT/GB2005/000354

- 1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
- see 'Invitation to pay additional fees' 2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
- 3.If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
- 4.If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

Сагедоту 1	Cástion of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 000 389 A (ALSAGER LESLIE E ET AL) 19 September 1961 (1961-09-19) the whole document	1-11,13, 14,31
X .	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 14 31 December 1998 (1998 12=31) & JP 10 252963 A (TOOFURE WK), 22 September 1998 (1998-09-22) abstract	1,6-10, 14,15
A	WO 01/51817 A (LEYBOLD VAKUUM GMBH; ADAMIETZ, RALF; BEYER, CHRISTIAN; ENGLAENDER, HEI) 19 July 2001 (2001-07-19) the whole document	1-17. 19-31
X	US 5 971 439 A (CWIK ET AL) 26 October 1999 (1999-10-26) column 7, line 16 - column 10, line 56; figure 1	1,
X	GB 1 541 294 A (EROMUE-ES HALOZATTERVEZO VALLALAT) 28 February 1979 (1979-02-28) the whole document	1
Α	DE 79 33 066 U1 (INDUSTRIE-WERKE KARLSRUHE AUGSBURG AG, 7500 KARLSRUHE) 21 February 1980 (1980-02-21) the whole document 	1
X Fuel	rendocuments are listed in the continuation of box C X Patent family members are fisjed	d'in annéx.
'A' docum	lagories of cited documents. "It later document published rates the interesting in defining the general state of the art which is not condition or priority date and not in condition or priority date and not income.	ili the application but theory underlying the actaimed invention

"t." document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified)

O' document retenting to an oral disclosure, use, exhibition or other means

document published prior to the International filling date but later than the promity date claimed

Involve an invenive step when the document is taken alone

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a parson skilled in the art.

'&' document member of the same patent family

Form PCTASA/206 (Arner, first sheet) (July 1962, repivil January 2004)

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Annex to Form PCT/ISA/206 COMMUNICATION RELATING TO THE RESULTS OF THE PARTIAL INTERNATIONAL SEARCH

International Application No
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Category *	Challen of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
		Lieutavani in cisimi bidi
A	US 6 065 780 A (HIROSHIMA ET AL) 23 May 2000 (2000-05-23) figures	1
A	· EP 1 270 949 A (BOC EDWARDS TECHNOLOGIES, LIMITED) 2 January 2003 (2003-01-02) figure 2	1
A	WO 02/086325 A (LEYBOLD VAKUUM GMBH: BEYER, CHRISTIAN; HODAPP, JOSEF: ENGLAENDER, HEIN) 31 October 2002 (2002-10-31) abstract	1
Á	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 02. 5 February 2003 (2003-02-05) & JR 2002 303294 A (BOC EDWARDS TECHNOLOGIES LTD); 18 October 2002 (2002-10-18) abstract	1
A	PATENT ABSTRACTS OF JAPAN vol. 005; no. 127 (M-083), 15 August 1981 (1981-08-15) & JP 56 064195 A (JEOL LTD), 1 June 1981 (1981-06-01) abstract	i